

## ABSTRACT OF THE DISCLOSURE

A probe is provided for an SPM (Scanning Probe Microscope), and a method is provided for fabricating the probe in which a double side alignment process is not required to simplify the fabricating. The probe includes a cantilever; a body supporting the cantilever; and a tip formed at an end of the cantilever, wherein the cantilever, the body and the tip are made of silicon, and boron is diffused into the cantilever and a predetermined area of the body. The method includes steps of: forming a first mask layer on an area of a silicon substrate to be formed with the body and the tip; etching the silicon substrate in a predetermined depth using the first mask layer to form the tip; removing the first mask and forming a second mask layer on an area of the silicon substrate except for an area to be formed with the body and the cantilever; forming a boron-diffused layer by diffusing boron into an area to be formed with the cantilever and a predetermined area of the body using the second mask; removing the second mask layer and forming a third mask layer on the boron-diffused layer; and etching the silicon substrate using the third mask layer to form the body and the cantilever.